



King County

Programs for Educators

2005–2006 School Year Edition



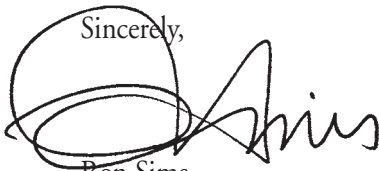
September 2005

Dear King County Educators:

It is with great pleasure that I introduce the publication of the *2005-2006 King County Programs for Educators Guide*.

The annual update of this guide helps ensure that educators have current information on available county programs, materials, and funding sources. This publication is the result of the coordinated efforts of a number of county agencies that provide services to schools and is an example of the vital cooperation that develops and sustains just and equal educational opportunities. This edition features numerous programs that present students with a wide variety of topics ranging from disaster and emergency preparedness to natural resource stewardship. These and other programs listed in the guide deal with issues that shape and influence our quality of life in King County now and well into the future.

As King County Executive, I have worked to make education a top priority for my administration. Our economic strength, vitality and quality of life rest on enabling all of our citizens to access educational avenues necessary to succeed and prosper. I hope this guide will be a valuable resource in your vital work as educators.

Sincerely,

Ron Sims
King County Executive

Programs for Educators Directory

2005-2006 School Year Edition

TABLE OF CONTENTS

Arts, Culture and Heritage.....	1
Community	2
Emergency Preparedness and Prevention	3
Environment	4
Household Hazardous Waste	4
Earth Heroes At School	4
Waste Reduction and Recycling.....	6
Water Quality	12
Watersheds, Wetlands and Habitat.....	13
Salmon Restoration.....	16
Other Environmental Programs and Resources.....	17
Nutrition.....	19
Transportation.....	20
Airport/Aviation Education	20
Transit Education and Safety	21
4-H Programs	23
Index.....	26
King County Program Contacts	28
Find It On The Net	29



The 2005-2006 King County Programs for Educators Directory can be found on the King County web site in .pdf format at www.metrokc.gov/dnrp/swd/education/documents.asp

This material will be provided in alternate formats upon request for individuals with disabilities.

NOTE: All programs are provided free of charge, unless otherwise noted.
Please contact program provider for details.

Arts, Culture and Heritage

Grants

Cultural Education Program - Local History in Education Grants

4 Culture

Grades K-12 • Annual competitive grants are awarded to local history museums, heritage organizations, historians and heritage specialists for collaborative projects in King County public schools. Successful proposals will involve students and teachers in documenting, preserving and interpreting local historic and heritage resources. Proposals should broaden the scope of heritage resources into core curriculum, including local history, archaeology, social science and other subjects.

Contact Charles Payton at 206-296-8693 or charles.payton@4culture.org for more information.

Special Projects Program - Arts Projects Grants

4 Culture

All ages • Annual competitive grants are awarded to artists, arts organizations and community groups for special initiatives including community arts outreach projects and arts programs addressing special populations such as seniors, youth and ethnic communities.

Contact Doreen Mitchum at 206-296-7579 or doreen.mitchum@4culture.org for more information.

Special Projects Program - Heritage Projects Grants

4 Culture

All ages • Annual competitive grants are awarded to local history museums, heritage organizations, historians and heritage specialists for special initiatives involving youth in the identification, documentation and preservation of local heritage resources. Such resources may include, but are not limited to, historic and archaeological sites, museum exhibits and collections, oral history projects that interview community elders, and community history research.

Contact Charles Payton at 206-296-8693 or charles.payton@4culture.org for more information.

Internet Resources

Heritage Publications

4 Culture

All ages • A series of downloadable historical bibliographies on Seattle and King County's geographic, ethnic and thematic history as well as papers on technical topics including historical research resources are available at www.4culture.org/heritage/publications.htm.

Teacher Workshops

Cultural Diversity Program

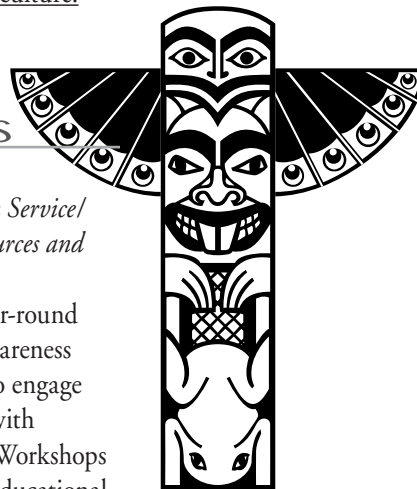
*Washington State University Extension Service/
King County Department of Natural Resources and Parks*

All ages • This program operates year-round and includes development of personal awareness and information necessary for a person to engage in positive and productive relationships with culturally diverse individuals or groups. Workshops provided present a variety of innovative educational opportunities that will contribute to the life-long learning of minorities and the success of their communities. Activities included are:

- Cultural Foundation - Develops elements of personal awareness necessary to engage in positive and productive relationships with culturally diverse individuals or groups.
- Cultural Diversity - Focuses on understanding the differences and similarities that exist between individuals, cultural groups, and their activities.
- A Lesson of Culture - Provides a unique opportunity to learn the relevant differences and similarities that exist in a culture including food, education and music. Two new diversity curriculums will be provided.
- Volunteerism - Some strategies to recruit minority volunteers will be provided.

Workshops are one to three hours in length and are available upon request.

Contact Sonia G. Morales at 206-205-3133 or sonia.morales@metrokc.gov or sgmorales@wsu.edu.



Community

Action Projects

Community Gardening Program

King County Department of Natural Resources and Parks

All ages • This program provides an opportunity for people to learn about growing plants and vegetables organically in a ten-by-forty foot rental plot. Community Gardens are located at:

- North Green River Park at Green River Road and 94th Place South near Kent, and
- Marymoor Park, 6046 West Lake Sammamish Pkwy NE, near Redmond.

Applications are accepted on an on-going basis, as space is available. Year-round plots are available at both gardens. School groups can make a school-year commitment at either garden. Gardeners must provide all equipment. Rental fee for school groups may be waived.

Contact Anne Lipe at 206-205-8751 or anne.lipe@metrokc.gov for more information on the North Green River Community Garden.

For information on the Marymoor Community Gardens contact the Marymoor Community Gardeners Association at marymoorgarden@yahoo.com or visit their website at www.marymoorgarden.org.



Classroom Programs

Civil Rights Education

King County Office of Civil Rights

Grades 11, 12, others • Students approaching graduation may be ready to look for a job or rent an apartment. Before they dive into these decisions, schedule a presentation by King County's Office of Civil Rights. OCR enforces King County's anti-discrimination ordinances: fair employment, fair housing, and public accommodations. Speakers describe the office's work and services, and talk about basic civil rights protection, fair housing, fair employment practices, and fair treatment in stores, restaurants and other public accommodations.

The presentations are planned for upper high school grade levels, but topics can be tailored to the

audience. They take from 30 to 50 minutes, and can be expanded. The topics apply to Washington's Essential Academic Learning Requirements found in the Social Studies categories of Civics and History.

For information about the King County Office of Civil Rights check out the OCR Web site at www.metrokc.gov/dias/ocre or find the link at www.metrokc.gov/kids. The Office of Civil Rights publishes an agency brochure, an annual report, fact sheets and many fair housing publications that are available upon request or on our Web site. They are available in alternate formats.

Contact Rose Dotson at 206-296-7592, 206-296-7596 TTY or rose.dotson@metrokc.gov for more information.



King County Work Training Program

King County Department of Community and Health Services, Community Services Division

Grades 7-12 • The Work Training Program provides education, employment and training services for hard-to-serve youth in King County outside the city of Seattle. Youth must be low-income, high school dropouts or at risk of dropping out of school, and between the ages of 14 and 24. Thirty-minute classroom presentations are available on pre-employment training, how to look for a job, prepare a resume and complete a work application. Career exploration and labor market information are available. Services include case management, GED attainment, basic skills remediation, credit recovery, life skills, parenting, counseling, and employment and training services.

Contact George Dignan at 206-296-5220 or george.dignan@metrokc.gov for more information.

Internet Resources

King County's Fiber Optic Network Plans

King County Department of Executive Services, Information and Telecommunications Services Division

King County is building a fiber optic institutional network (I-Net) to 270 sites, including

all school districts, suburban cities and some King County agencies as well as a group of content providers including museums, King County libraries, Woodland Park Zoo, Seattle Center, Seattle Art Museum and Benaroya Hall. Many King County regional and branch libraries and King County departments are already using I-Net and its capabilities. Over 11,000 miles of fiber optic cable have been installed to enable this high-speed broadband network. It now serves ten cities within King County. Four school districts are now using a combination of I-Net and “dark fiber” to upgrade their network infrastructure. This network will enable participants to contact each other via data or video across the network. I-Net will allow schools

to use distance learning capacities with higher education, allowing K-12 students to “sit in” on classes at the community colleges, and teachers can participate in continuing education classes without leaving their schools. The increased capacity and performance that I-Net provides will help future applications like two-way video between members of the I-Net. Schools need their own video or computing equipment to take full advantage of the I-Net network. I-Net is an E-Rate eligible service provider. King County libraries and several school districts are already receiving the benefits of E-Rate.

Contact Betty Richardson or Walt Yeager at 206-263-4814 or visit www.metrokc.gov/dias/its/i-net/index.htm for more information.

Emergency Preparedness and Prevention

Curricula

Seismic Sleuths Curriculum Guide

King County Department of Executive Services, Office of Emergency Management

Grades 7-12 • A limited supply of Seismic Sleuths curriculum guides is available to educators. Seismic Sleuths is an interactive, hands-on curriculum that explores the cause of earthquakes, ways to measure their effects, and preparedness issues. The guides are produced by the Federal Emergency Management Agency (FEMA).

Contact our office at 206-296-3830 or kc.eoc@metrokc.gov for more information.

Tremor Troops Curriculum Guide

King County Department of Executive Services, Office of Emergency Management

Grades K-6 • A limited supply of Tremor Troops curriculum guides is available to educators. Tremor Troops is an interactive, hands-on curriculum that explores the cause of earthquakes, ways to measure their effects, and preparedness issues. The guides are produced by the Federal Emergency Management Agency (FEMA).

Contact our office at 206-296-3830 or kc.eoc@metrokc.gov for more information.

Field Trips

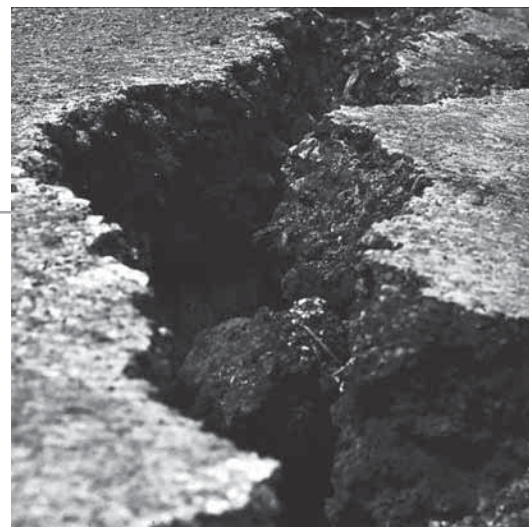
Regional Emergency Coordination Center Field Trips

King County Department of Executive Services, Emergency Coordination Center

Grades 8-10 • Tour the county's Emergency Coordination Center (ECC)

where representatives from county departments and outside agencies coordinate disaster operations. Students will learn about the county's role during a disaster, such as an earthquake or flood, and how the ECC assists cities and communities within King County with disaster prevention and response issues. The tour features an inside look at the ECC's high-tech equipment and radios that are used during disaster activations. Tour length is 1.5 to 2 hours. Tours are scheduled on a first-come, first-serve basis. ONLY one tour is scheduled per month.

Call 206-296-3830 to schedule a tour or for more information. Visit <http://www.metrokc.gov/prepare> for more Emergency Preparedness and Prevention information.





Environment

HOUSEHOLD HAZARDOUS WASTE

Action Projects

Action Teams

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-12 • Classrooms are encouraged to take action for the environment by completing a project that enhances their own and others' awareness of the effects of household hazardous waste. Teachers can receive project funding through mini-grants of \$50 to \$500 as well as technical assistance in developing and implementing the project. Past projects have included water quality testing, stenciling storm drains, developing an organic or pesticide-free garden, and developing projects for a science or environmental fair. Priority is given to teachers who have taken the Hazards on the Homefront Teacher Workshop.

Contact Jennifer Howell at 206-583-0655 or visit <http://dnr.metrokc.gov/swd/schoolpr/hhw/minigrants.htm> for more information.

Classroom Programs

Hazards on the Homefront: Slugs, Bugs, and Dirty Toilets

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 4-12 • Find out how common hazardous household products like bug killers, car products, paints and cleaners can affect the health of people, salmon, and the environment. Handle real household products, learn how to identify the hazardous ones by reading the labels, and learn safer alternatives.

Activity options include having students:

- Sequence environment photo cards to trace the route of hazards from home to streams and salmon.
- Critique different hazardous waste disposal options.
- Test safer cleaning products.
- Shop for least-hazardous products or try out Toxic-Free Bingo.
- Produce skit "commercials" for safer household products.
- Create product labels incorporating advertising techniques.

Choose either a one-day session (55 minutes - 2 hours) or a longer, customized, hazardous waste mini-unit spread over two to three days. All sessions are interactive and activity-based. Teachers frequently integrate this program into studies of water quality and water pollution, environmental and health issues, recycling and waste disposal, and chemistry and the community. This program supports the Washington State EALRs.

To schedule a free hazardous waste program, contact Gail Gensler at 206-263-3082 or gail.gensler@metrokc.gov. You may also visit <http://www.govlink.org/hazwaste/schoolyouth/> for more information.

Household Hazardous Waste & Water Quality: A Classroom Series

Washington State University Extension Service/King County Department of Natural Resources and Parks, Solid Waste Division

Grades 9-12 • This program, designed for high school students, will come to your classroom twice a week for 6-8 weeks to increase youth-based knowledge of hazardous waste issues and challenges in King County. The training is based on Hazards



EARTH HEROES AT SCHOOL PROGRAM

The Earth Heroes at School Program recognizes teachers, students, staff, programs and local schools for doing exceptional work to protect our natural resources through their educational efforts. Nominate your colleagues (or yourself) if you know of programs that are making a difference. Nomination forms will be available in January 2006. Call 206-296-4477.



on the Homefront, a curriculum developed by King County Solid Waste Division that provides real-life examples, experiential learning methods, and helps students to become critical thinkers, problem solvers and thoughtful consumers. The topics covered in this 6-8 week program include:

- Recognizing Hazardous Waste
- Familiarity with Household Hazardous Waste Facilities
- Analyzing Labels
- Routes To The Environment
- Two Field Trips (Hazardous Waste & Water Quality)
- Proper Disposal Methods
- Safer Substitutes
- Consumer Choices, Buy Only What You Need
- Community Outreach Project

These topics are covered through classroom presentations, group activities, expert guest speakers and field trips. The final project involves students working in teams to take one of the lessons into a local 4th, 5th, or 6th grade classroom.

Contact Darcy Batura at 206-205-3130 or darcy.batura@metrokc.gov for more information.

This program is offered to two classrooms each year. Selection will be based on interest and alignment of educational goals.

Curricula

Hazards on the Homefront: A Teacher's Guide to Household Hazardous Waste

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-6 and 7-12 • This guide is designed to familiarize students with the health and environmental effects associated with the use of many common household products. Lessons include reading product labels and making safe choices about use, storage and disposal of hazardous products. A new lesson focusing on potential health impacts as a result of exposure to everyday products has been added. The activities in the guide develop skills for investigating household hazardous waste issues, and suggest opportunities for students to actually do something about reducing hazardous waste in their community. Lessons in the guide are matched to multiple intelligence levels and various Washington State EALRs. The guide is available free to teachers

who take the Hazards on the Homefront teacher workshop.

Assistance is available to school districts wishing to integrate or adapt the lessons into existing curricula.

Contact Donna Miscolta at 206-296-4477 or donna.miscolta@metrokc.gov for more information.

Grants

Hazards on the Homefront: Mini-grants

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of Grades 4-12 • Funding in amounts ranging from \$50 to \$500 is available to teachers who have taken the Hazards on the Homefront training. Funding can be used for materials or supplies to teach lessons from the Hazards on the Homefront guide or for carrying out an action project with students. A brief written report is required upon completion of the lesson or project.

Contact Jennifer Howell at 206-583-0655 or jhowell@triangleassociates.com, or visit <http://www.metrokc.gov/dnpr/swd/education/minigrants.asp> for more information.



Sustainable Landscaping Demonstration Gardens

All ages • Our communities have a great impact on our environment, including the landscaping that enhances our built structures. Visit three sustainable landscaped demonstration gardens surrounding the King County Department of Development and Environmental Services at 900 Oakesdale Ave. S.W. in Renton, Washington. The gardens include a drought tolerant "xeriscaped" garden, shade garden and rain garden. Improving the soil and using plants suitable for unique conditions are among the sustainable methods used to respond to three typical Northwest landscapes: drought, shade and standing water. The gardens are low maintenance, feature native plants, promote healthy soil, minimize water use, and do not need excessive fertilizer or pesticides. Signage and educational kiosk at each garden make possible self-guided tours. The gardens can be viewed year-round, but the best viewing will be during late spring and summer. Self-guided tours take approximately 30 minutes.

Contact Karen May at 206-296-4353 or karen.may@metrokc.gov for more information.



Internet Resources

Hazardous Waste Web Site

King County Department of Natural Resources and Parks, Water and Land Resources Division and Solid Waste Division

- For information on household hazardous waste, visit <http://www.govlink.org/hazwaste/>
- For online publications visit <http://dnr.metrokc.gov/topics/publications/publtopic.htm>

Teacher Workshops

Hazards on the Homefront: Teacher

Training Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of Grades 4-12 •

These workshops demonstrate how to incorporate the lessons in the Hazards on the Homefront teacher's guide into different subject areas. Teachers receive resources such as ready-to-use classroom materials, follow-up support, and a newly developed lesson on health effects of household hazardous products. Clock hours credit and teacher stipend are available.

A workshop is scheduled for October 14, 2005. Additional workshops are scheduled throughout the year.

Contact Jennifer Howell at 206-583-0655 for more information or email workshops@triangleassociates.com, or visit <http://www.metrokc.gov/dnrp/swd/education/hazwaste.asp>.

WASTE REDUCTION and RECYCLING

Action Projects

Green Teams

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-12 • A Green Team is a classroom group or environmental club that commits to making a positive difference in the environment

by completing projects in the classroom, school, or community. Typical school projects include starting a worm bin, sponsoring waste-free lunches and encouraging participation in the school recycling program. Workshops and assistance for getting started on a project are available. Green Teams that complete projects are eligible to win prizes and recognition.

Contact a Green Team Specialist at 206-583-0655 or greenteam@triangleassociates.com for more information, a registration form, or list of project ideas. Or visit <http://www.metrokc.gov/dnrp/swd/elementaryschool/greenteams.asp>

Green Team Mini-Grants

Grades 1-12 • Mini-grants in amounts up to \$500 to support educational activities related to waste reduction, recycling, and resource conservation are available to teachers who participate in the Green Team program.

Contact a Green Team Specialist at 206-583-0655 or greenteam@triangleassociates.com for more information. Or visit <http://www.metrokc.gov/dnrp/swd/elementaryschool/greenteams.asp>

Classroom Programs

Earth Smart: Choices for Our Planet Elementary School Assembly

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-6 • Two professional actors present this new assembly program with a lively, interactive format to demonstrate how advertising can influence our product choices, how those choices affect the environment, and how positive choices to reduce consumption and waste benefit the earth. The primary version focuses on waste reduction and recycling while the intermediate version introduces students to the concept of an ecological footprint or "earthmark."

Call 206-583-0655 or email workshops@triangleassociates.com for more information or visit <http://www.metrokc.gov/dnrp/swd/elementaryschool/assembly.asp>.

Earth Smart Classroom Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-6 • These interactive workshops build on the lessons of the elementary assembly program,



Earth Smart: Choices for Our Planet. Teachers can choose from among four topic areas: Waste Reduction and Recycling, Habitat Stewardship, Litter Prevention, and Smart Shopping. These 40-minute hands-on presentations are fast-paced and action-oriented, and ignite students' own ideas about how to reduce waste and care for the environment.

Call 206-583-0655 or email workshops@triangleassociates.com for more information, or visit <http://www.metrokc.gov/dnrp/swd/elementaryschool/workshops.asp>.

Master Recycler Composter Volunteers

King County Department of Natural Resources and Parks, Solid Waste Division

All ages • King County's Master Recycler Composter (MRC) volunteers are available to provide school presentations on topics including waste reduction, recycling, composting and alternatives to household hazardous waste. Presentations can include hands-on displays such as worm bins for food waste composting, environmentally friendly and unfriendly lunches, and alternatives to household hazardous products. Presentations can be made on other resource conservation and waste reduction topics as well.

Contact Susan Evans at 206-343-9759, ext. 108 or susan@cascadiaconsulting.com to schedule a classroom visit.

For more information on the MRC program, contact Karen May at 206-296-4353 or karen.may@metrokc.gov, or visit <http://dnr.metrokc.gov/swd/mrc/index.asp>.

Natural Connections Classroom Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 6-12 • These classroom workshops for secondary school students are based on the messages in the Natural Connections television special and video (described on page 11). The workshops are engaging, interactive, and speak to teens on a level on which they can relate. Students work together in small groups through activity stations that encourage each of them to discuss, debate, and discover "Why I should care." The workshops challenge teens

to develop critical thinking skills by connecting environmental impacts to their everyday choices. A written activity sheet that students complete during the class period holds students accountable for their learning and reinforces key concepts. All workshops integrate Essential Academic Learning Requirements. Workshops are designed for a 50-minute class period but can run up to 75 minutes for longer class periods. Companion videos are provided. Workshops choices are:



Biodiversity in Our World: What is biodiversity and why is it important? Through challenging and fun hands-on activities, students gain a clear understanding of biodiversity, human impacts on the planet, and how their personal choices can make a difference.

Earth Impact: Over-Consumption or Sustainability? How and why do we choose what to buy? What impact do these choices have on our planet? How can we choose more sustainable products? Students answer these questions as they rotate through activities that explore advertising, packaging, and our ecological footprint.

Call 206-583-0655 or email workshops@triangleassociates.com to schedule. Look for more information and EALR tie-ins at <http://www.metrokc.gov/dnrp/swd/secondaryschool/workshops.asp>.

Combine a Natural Connections workshops with a Waste Busters Workshop for a multi-day unit of study



Soils, Compost and Worms in the Classroom

Washington State University Extension Service/King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-12 • Students learn quick and easy ways to turn yard trimmings and vegetable scraps into rich soil amendments. WSU Extension faculty will cover the basics of soils and how composting waste can improve soil structure and productivity. Training includes hands-on activities with soils and composting worms. Program length is: 60-90 minutes.

Contact Darcy Batura at 206-205-3130 or darcy.batura@metrokc.gov to schedule a presentation.

Waste Busters Classroom Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 6-12 • Waste Busters workshops

spark student interest in waste reduction, recycling and conservation of natural resources. These hands-on, interactive workshops are presented by Pacific Science Center instructors. Each workshop:

- Addresses many of the Washington State Essential Academic Learning Requirements (EALRs) for science, math and/or social studies.
- Is designed for a 50-minute class period, but can run up to 90 minutes for longer class periods or can be extended to a two-day session (two 50-minute or two 90-minute classes).

For Grades 6-8

Biospheres (EALR - science) – What happens to waste in a closed system? Explore how the Earth's natural cycles break down waste and how our waste-producing activities affect natural systems.

Consumption Junction (EALRs - science, social studies) – How do our lifestyles affect the quality of the Earth's environment? Learn about the time, energy and natural resources that are used to make an everyday product, and how we can limit

Assistance to School Facilities

Recycling and Waste Reduction Assistance

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-12 Public and Private Schools • This program helps schools and school districts to:

- Improve recycling programs.
- Expand waste reduction practices.

King County provides:

- A site visit to assess each facility's solid waste management practices and written recommendations on how the school can make improvements.
- Hands-on assistance to help each school facility to increase recycling, decrease garbage, and possibly reduce garbage collection costs.
- Recycling containers and signage as needed.

Contact Dale Alekel at 206-296-8457 or dale.alekel@metrokc.gov.

alekel@metrokc.gov for more information or to request assistance, or visit www.metrokc.gov/dnrp/swd/education/assistance.asp.

Green Schools Program

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-12 Public and Private Schools • King County will help you become a "Green School." You set your goals and

we'll help you achieve them. This program helps schools and school districts to:

- Conserve natural resources.
 - Save money.
 - Promote awareness of conservation strategies among students, faculty and administrators.
 - Receive recognition for their conservation efforts.
- Participating schools and school districts set goals in two, three or four of the following eight environmental categories:

- Waste Reduction and Recycling (required)
- Hazardous Materials Reduction and Management.
- Litter Reduction
- Environmental Purchasing
- Energy Conservation
- Water Conservation
- Reduction of Greenhouse Gas Emissions
- Environmental Education

To help schools and school districts reach their goals, King County provides:

- Practical hands-on assistance.
- Supplies such as recycling containers.
- Information and referrals.

Contact Dale Alekel at 206-296-8457 or dale.alekel@metrokc.gov.

alekel@metrokc.gov for more information, or visit www.metrokc.gov/dnrp/swd/greenschools.

consumption to create a more sustainable future.

Sorting It Out (EALRs - science, social studies)

– Where does your garbage go? Learn how to decrease solid waste by rethinking, reusing, recycling and composting. Find out what new products are made from recycled materials and the importance of “buying recycled.”

Weigh the Waste (EALRs - math, social studies) – How and why have the contents of a landfill changed over time? Students will become “garbologists” as they investigate landfill samples from the last forty years, graph the data and draw conclusions.

Zero In On Waste (EALRs - science, social studies) – Through an interactive board game, discover ways to reduce waste. See firsthand how a worm bin helps create less trash.

For Grades 9-12

Biospheres (EALR - science) – Examine the biotic and abiotic factors that influence an ecosystem within a closed environment. Students will analyze the effect of their daily consumption on the earth, and learn ways they can live sustainably within their own closed system - the Biosphere.

Waste Not, Want Not (EALRs – science, social studies) - How does our rate of consumption affect the Earth’s limited reserve of natural resources? Investigate the connections between natural resources and the products we consume. Learn how these concepts are the key to sustainability.

For more information or to schedule a classroom presentation, call 206-443-2851 or email wastebusters@pacsci.org.

Waste Reduction and Recycling Activity Sheets

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-6 • Seven activity sheets provide lessons and tips on reducing waste and recycling.

- Be a Garbage Gumshoe: Investigate Your Garbage
- Composting: Worm Recycling
- Cut Down Paper Waste, Not Trees
- Grocery Store Scavenger Hunt
- How to Improve Your School’s Waste Reduction and Recycling Program
- Plan a Waste-Free Lunch

- Set Up Your Classroom to Encourage Reuse

You can download these at <http://www.metrokc.gov/dnrp/swd/elementaryschool/guides.asp>, or call 206-583-0655 to request copies.

Curricula

Storybooks

King County Department of Natural Resources and Parks, Solid Waste Division

Preschool-Kindergarten • Adventures with Zeela is the story of a visitor from another planet who has come to Earth to find out how humans solve the problem of too much waste. Tikli’s Nose is the story of a troll who helps humans better appreciate ways they can reduce and recycle waste.

Contact Donna Miscolta at 206-296-4477 or donna.miscolta@metrokc.gov.

Zero in on Waste Guides

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 6-12 • Lessons on waste reduction and recycling are presented in the context of science, math and social studies in these curriculum guides.

Contact Donna Miscolta at 206-296-4477 or donna.miscolta@metrokc.gov for more information, or visit <http://dnr.metrokc.gov/swd/schoolpr/second/guides.htm>.

Field Trips

Tours - Cedar Hills Landfill

King County Department of Natural Resources and Parks, Solid Waste Division

All ages • Schedule tours of King County’s regional landfill by calling the Cedar Hills Landfill at 206-296-4490.

Background information about the landfill is available on the web site at <http://www.metrokc.gov/dnr/kidsweb>.



Tours - Transfer Station

King County Department of Natural Resources and Parks, Solid Waste Division

All ages • All of King County’s transfer stations



- Algona, Bow Lake, Enumclaw, Factoria, First Northeast, Houghton and Vashon - are open for tours by appointment. The Enumclaw and Vashon Transfer Stations are state-of-the-art facilities featuring recycling centers, public facilities and artwork made from recycled materials.

Contact the Cedar Hills Landfill at 206-296-4490 to schedule a tour.

Publications

Class Act

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of Grades K-12 • This quarterly newsletter provides information on program offerings, and reports on projects undertaken by students and teachers. While primarily focused on waste reduction, recycling and household hazardous waste issues, the newsletter tries to include news and information on other

King County programs of interest to schools.

Contact Donna Miscolta at 206-296-4477 or email donna.miscolta@metrokc.gov for more information.

Videos

The following videos are available for loan for a length of two weeks from the King County Solid Waste Division. Call 206-296-4466.

All the Right Stuff

Grades 6-12 • Topic: Consumerism, teen marketing. Length: 25 minutes. A Canadian teenager looks more closely at teen spending habits. Join him on his trip to the mall and see how teens are bombarded with marketing campaigns that pressure them to keep up with the latest trends.

Give the Rake a Break, Jake!

Grades 5-10 • Topic: Smart lawn care. Length: 4 minutes. Learn why you never have to bag your grass clippings again!

Gotta Have It

Grades 5-8 • Topic: Teen marketing, consumerism. Length: 15 minutes. This video

features local young actors in a story about our buying habits, the media and consumption of natural resources. It promotes critical thinking skills and stimulates awareness of: a) connections between over-consumption of material goods and depletion of natural resources; and b) media advertising techniques. It comes with a discussion guide for teachers.

Household Hazardous Waste: A Little Goes a Long Way

Grades 6-12 • Topic: Hazardous waste. Length: 15 minutes. Learn how to recognize, safely use and dispose of some of the hazardous products in our lives. You'll also learn about some safer alternatives.

The Merchants of Cool

Grades 9-12 • Topic: Consumerism. Length: 60 minutes. This Frontline program explores the culture in which today's American teenager is growing up and how their lives have become the object of obsessive focus by corporate America.

Mr. Roger's Neighborhood

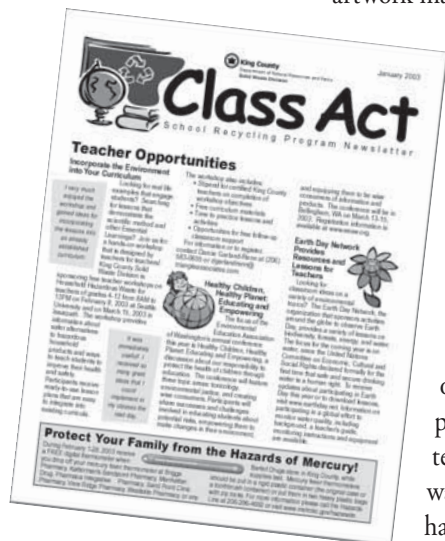
Preschool-Kindergarten • Topic: Recycling. Length: 30 minutes. When solid waste problems plague the "Neighborhood of Make-Believe," Mr. Rogers talks to children about the importance of waste reduction.

Natural Connections – Emmy Award Winner!

Grades 4-12 • Topic: Environmental awareness. Length: 48 minutes. Several Northwest scientists, as well as world-renowned biologist Edward O. Wilson, speak about the inter-connectedness among different species and their ecosystems and how our everyday actions affect the environment. Topics include biodiversity, the role of salmon in the web of life, keystone species and healthy forests.

No Time to Waste

Grades 4-8 • Topic: Environmental awareness and the political process. Length: 30 minutes. Follow middle school students from around the world as they take on environmental projects and learn how to make a difference through the political process.



Oil and Water Don't Mix

Grades 6-12 • Topic: Recycling oil. Length: 8 minutes. A popular comedian shares knowledge about where oil comes from, the problems with disposal and ways we can use oil safely.

Our Planet Earth

Grades 4-12 • Topic: Environmental awareness. Length: 23 minutes. This award-winning film documents 17 astronauts from 10 different countries as they share their experiences and insights in the hope that others will see the wonder and fragility of our planet, as they have, from beyond political and geographical boundaries.

The Resource Revolution

Grades 6-12 • Topic: Recycling. Length: 12 minutes. Through one student's classroom presentation, we learn the basics of the recycling movement with an emphasis on plastics.

The Rotten Truth

Grades 2-8 • Topic: Waste reduction and recycling. Length: 30 minutes. Visit the "museum of garbage," the world's largest landfill and a recycling plant, as a student guide teaches about waste reduction and recycling.

Space Station Earth

Grades K-5 • Topic: Waste reduction and recycling. Length: 23 minutes. Join a classroom of elementary school students as they learn why we recycle, what happens to our recyclables and how we can reduce the amount of waste we create.

Studies in Stewardship

Grades 5-12 • Topic: School-based environmental projects. Length: 8 minutes. Three schools in King County are profiled for their environmental projects. Featured are river ecology studies at Snoqualmie Elementary, a recycling program at Tolt Middle School, and a composting project at West Auburn High School.

Stuff Video Project

Grades 8-12 • Topic: Personal Consumption and the Environment. Length: 13 minutes. High school students from Foster High School (Tukwila

School District) helped to develop and produce this video which consists of three short pieces that focus on what goes into making, transporting and/or consuming ordinary products that North Americans use in their daily lives. "Think Twice" (6 minutes) – Two high school students metaphorically "sleep walk" their way through an average school day, using familiar items such as a cell phone and diet breakfast drink. Through graphics, photos and voice-over narration, the viewer sees where a product comes from, the resources used to make it and where it goes when it is no longer wanted or needed. "Sole for Sale" (1.5 minutes) and "Food for Thought" (2 minutes) also address the issues of consumption and depletion of natural resources. This video comes with a discussion guide for teachers. It is an appropriate follow-up to the "Natural Connections" video.



Turtle World

Grades 3-12 • Topic: Environmental awareness. Length: 9 minutes. This award winner is a prophetic and insightful look at how human nature has allowed us to lose touch with the Earth. It is a simple but powerful story told through the wonder of computer animation and is a great conversation starter.

Wiz Kids Go Green

Grades 2-6 • Topic: Waste reduction and recycling and consumerism. Length: 40 minutes. In this video of a Wiz Kid performance, consumerism, smart shopping, garbage analysis and worm bins are explored in their wonderfully engaging and humorous style. The Wiz Kids are top-notch educators and entertainers.

Wiz Kids Video Adventures

Grades K-6 • Topic: Waste reduction and recycling, composting and worm bins. Length: 28 minutes. Through seven lively short stories, students and teachers learn a variety of behaviors that will help them to reduce the amount of waste they create.

WATER QUALITY

Field Trips

Wastewater Treatment Plant Tours

King County Department of Natural Resources and Parks, Wastewater Treatment Division

Grades 5 - Adult • Tour one of King County's regional wastewater treatment plants. Spend two hours exploring South Plant in Renton or West Point near Discovery Park. Learn how wastewater is treated and reclaimed, biosolids are created and energy is recovered. Tours may also be scheduled in conjunction with a Discovery Park or Black River water quality experience.

For information and scheduling call 206-296-8286 or visit <http://dnr.metrokc.gov/wtd/tours/index.htm>.



Waterworks Garden Stroll - South Plant - Renton

King County Department of Natural Resources and Parks, Wastewater Treatment Division

All ages • Landscape Architecture magazine calls it a "modern ecological experience." Stroll through Waterworks Garden, an eight-acre public space where art, technology and nature join in a unique way. Five garden areas follow nature's path in the purification of storm water received from the adjacent wastewater reclamation plant. Limited parking.

Contact Jo Sullivan at 206-263-8361 or jo.sullivan@metrokc.gov for more information.

Wheels to Water

King County Department of Natural Resources and Parks, Wastewater Treatment Division and Metro Transit

Grades 5-12 • This free King County program provides a Metro bus for transportation to selected wastewater/water quality field trip sites.

General Information:

- Buses are provided on a first come, first serve basis, and number of buses per school may be limited.
- Buses are available Monday-Friday during school hours.
- Wheels to Water provides only the bus; it does not arrange or pay for the cost of the

field trip site.

- Three weeks advance scheduling is required as program times/days may be limited.

How to reserve a bus:

1. Visit the Wheels to Water website at <http://dnr.metrokc.gov/wtd/wheelstowater> for a listing of participating programs.
2. Select a program and use the listed contact information to schedule the date and time of your field trip. Reserve a first and second choice date/time to ensure bus availability.
3. Call 206-263-6028 or use the email contact link on the Wheels to Water website to schedule a free Metro bus for one of your reserved program dates.
4. Confirm the final date and time with the field program coordinator. Remember to cancel any tentative dates you are not going to use.

Space is limited. Register early!

Grants

Splash - The Water Quality Education Fund

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Schools, non-profits, and local government agencies can apply for funding for educational projects related to water quality. The primary activity of the project must be community education. Examples are stenciling storm drains, water conservation and other educational projects that involve students, parents, local businesses and/or community.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/splash.htm> for grant guidelines or more information. Grants are available for under \$500 and up to the maximum amounts listed for competitive review.



Car Wash Kit Grant

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Schools, special districts (such as utility district), tribes, local governments, private non-profit organizations, or individuals are eligible for this grant. It is ideally suited for those who hold



frequent charity car washes or who want to help organizers of charity car washes do the right thing!

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov or visit <http://dnr.metrokc.gov/wlr/pi/carwash.htm> to apply online or by mail.

Videos

The Adventures of Little Drip

King County Department of Natural Resources and Parks, Water and Land Resources Division

Preschool-Grade 4 • Topic: Water cycle.

Length: 15 minutes.

Eight-year-old Wyatt joins Little Drip on an adventurous trip through the water cycle. Through the use of “magic water,” Wyatt is shrunk to raindrop size and follows Little Drip through the ground to an aquifer. They are then sucked up a well, bounced onto the pavement, become vapor and Wyatt returns home through his shower water! With Little Drip’s help, Wyatt learns how people have an impact on the quality and quantity of groundwater. Children learn:

- The basics of the hydrological cycle
- Groundwater terms
- How groundwater can be contaminated
- What young people can do on a daily basis to conserve and protect our groundwater supply

Contact Donna Kalka at 206-296-1968 or donna.kalka@metrokc.gov for more information.

A Walk Through West Point

King County Department of Natural Resources and Parks, Wastewater Treatment Division

Grades K-12 • Topic: Video tour of West Point Treatment Plant. Length: 13 minutes. Follow the process of treating and reclaiming wastewater and biosolids.

Groundwater: The Flow From Below

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 6-Adult • Topic: Groundwater. Length: 20 minutes.

This video describes where groundwater comes from, how it becomes contaminated and how we can protect it. Produced in a humorous, upbeat manner, the video presents the following groundwater issues:

- Agriculture

- Farming and forestry
- Growth and development
- Underground storage tanks
- Septic systems
- Water conservation
- Sea water intrusion
- Sand and gravel mining
- Landfills
- Hazardous materials management
- Groundwater recharge

Contact Donna Kalka at 206-296-1968 or donna.kalka@metrokc.gov for more information.

Wastewater Treatment Division Overview

King County Department of Natural Resources and Parks, Wastewater Treatment Division

All ages • Topic: History of the Wastewater Treatment Division and its operations. Length: 13 minutes.

Contact Jo Sullivan at 206-296-8361 or jo.sullivan@metrokc.gov for more information.

WATERSHEDS, WETLANDS and HABITAT

Action Projects

Native Plant Salvage Program

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 6-12 • This unique recycling program involves volunteers in digging up plants from natural sites before they are cleared for development. Later, “rescued” plants are replanted at habitat restoration sites. It is a great opportunity for middle and high school students to learn about native plants and their role in protecting the aquatic ecosystem. Volunteers are needed at both the native plant nursery and during the salvage.

Contact Greg Rabourn at 206-296-1923 or greg.rabourn@metrokc.gov for more information. For upcoming salvages, visit <http://dnr.metrokc.gov/wlr/Pi/salopps.htm>.



Volunteer Plantings/Adopt-A-Park Programs

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 3-12 • There are a number of volunteer opportunities appropriate for youth that range from one-time events to the adoption of a local park. These projects can vary significantly depending on the specific goals and objectives of the educator/school program/youth, and the opportunities available in parks and natural lands.

Stewardship and restoration projects have been popular. Programs include fall tree plantings, spring invasive plant removals for stream, wetland and meadow restoration projects at various parks. Volunteering at the King County Greenhouse and Nursery to help raise native plants for the restoration projects is available throughout the year, and is a great activity for the younger students. These are often the easiest opportunities for teachers to tap into since there is no long-term commitment. Special volunteer events can be arranged for school groups.

If educators are interested in a long-term experience, they can adopt a site with a minimum commitment of four projects per year. Projects vary from site to site, but can include cleaning up litter, planting trees, removing invasive plants, and/or monitoring.

Projects are planned for many Saturdays in the spring and fall. These make great “extra credit” projects for students. Young children must be supervised and an adult must accompany children under 16. Liability waivers are required for those under 18.

Teachers interested in a potential project for a class are encouraged to make a request.

Contact Tina Miller at 206-296-2990 or tina.miller@metrokc.gov for more information, or visit <http://www.metrokc.gov/parks> and click on the volunteer section for an overview of some of our ongoing and one-time projects.

Classroom Programs

Salmon Habitat Presentation for the Green/Duwamish and Central Puget Sound Watershed

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 9-12 • This 30-minute PowerPoint presentation is intended for high school students and focuses on salmon and salmon habitat in the Green/Duwamish and Central Puget Sound watershed of southern King County. The watershed public outreach coordinator explains what a watershed is, the problems salmon face, and what students can do to become good stewards of their watershed. Depending on the amount of time available, the presentation can be stretched to an hour-long discussion. To learn more about this watershed, visit <http://dnr.metrokc.gov/Wrias/9/index.htm>.

Contact Dennis Clark, Watershed Public Outreach Coordinator, 206-296-1909 or dennis.clark@metrokc.gov for more information.

Grants

Natural Resource Stewardship Network

King County Department of Natural Resources and Parks, Water and Land Resources Division

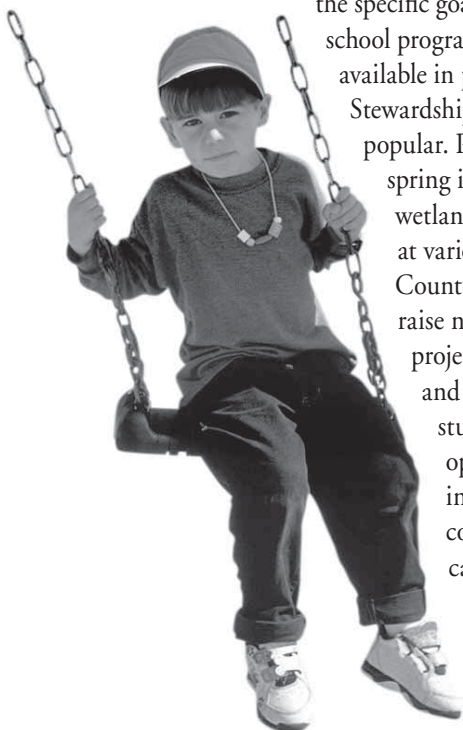
All ages • Effective January 2006, grants and technical assistance are available for activities related to after school forestry education. Schools, non-profits, and local government agencies are eligible for assistance.

Contact Linda Vane at 206-296-8042 or linda.vane@metrokc.gov, or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/NRSN.htm> for more information.

Splash - The Water Quality Education Fund

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Schools, non-profits, and local government agencies can apply for funding for educational projects related to water quality. The primary activity of the project must be community education. Examples are stenciling storm drains, water conservation and other educational projects that involve students, parents, local businesses and/or community.



Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/splash.htm> for grant guidelines or more information. Grants are available for under \$500 and up to the maximum amounts listed for competitive review.

WaterWorks Grants

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Grants are available for community projects that protect or improve watersheds, streams, rivers, lakes, wetlands or tidewaters. Projects must have a demonstrable positive impact on the waters of King County and must either improve or protect water quality and water dependent habitats, or demonstrate the beneficial use of biosolids or reclaimed water.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov, or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/waterworks.htm> for more information. Micro Grants are available for under \$500 and up to the maximum amounts listed for competitive review.

Wild Places for City Spaces: Urban Reforestation and Habitat Restoration Fund

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Urban reforestation and habitat restoration grant funds are available. These grants can be used for restoration on school grounds or a local park, re-establishing urban wildlife, and native gardening within the Urban Growth Boundary area of King County.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov, or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/wildplaces.htm> for grant guidelines or for more information.

SALMON RESTORATION

Action Projects

Fall for Salmon

King County Department of Natural Resources and Parks, Public Affairs

All ages • Numerous opportunities are presented each October for students to learn about salmon through hands-on activities and other opportunities to restore salmon habitat.

Contact Glynis Vaughn at (206) 296-1980 or glynis.vaughn@metrokc.gov for a calendar of events.

Classroom Programs

Salmon Habitat Presentation for the Green/Duwamish and Central Puget Sound Watershed

King County Department of Natural Resources and Parks, Water and Land Resources Division

This 30-minute PowerPoint presentation is intended for high school students and focuses on salmon and salmon habitat in the Green/Duwamish and Central Puget Sound watershed of southern King County. The watershed public outreach coordinator explains what a watershed is, the problems salmon face, and what students can do to become good stewards of their watershed. Depending on the amount of time available, the presentation can be stretched to an hour-long discussion. To learn more about this watershed, visit <http://dnr.metrokc.gov/Wrias/9/index.htm>.

Contact Dennis Clark, Watershed Public Outreach Coordinator, 206-296-1909 or dennis.clark@metrokc.gov for more information.

Field Trips

Cedar River Salmon Journey

*King County
Department of Natural Resources
and Parks, Water and Land
Resources Division*

All ages • Take advantage of this chance to see salmon spawning, and learn from volunteer naturalists about the natural and human history of



the Cedar River. The program takes place on several Saturdays and Sundays in October and November on the Cedar River near Renton. During the summer, naturalists are on duty at the Chittenden Locks. Contact Charlotte Spang at 206-296-8359 or charlotte.spang@metrokc.gov, or visit <http://dnr.metrokc.gov/wlr/pi/cedar-river-journey.htm> for more information.

Community Salmon Fund

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • A joint project between King County and the National Fish and Wildlife Foundation, this fund is meant to stimulate small-scale, voluntary action by landowners, community groups, and businesses to support salmon recovery on private property in King County and South Snohomish County.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/grantprograms.htm> for more information.

OTHER ENVIRONMENTAL PROGRAMS and RESOURCES

Classroom Programs



Land Use, Forest Ecology, Biosolids and Soil

Mountains to Sound Greenway Trust and King County Department of Natural Resources and Parks, Wastewater Treatment Division

Grades 5-10 •

Educators can choose from four curricula: Forests on the Edge; Forests and Fins; Greening up the Greenway (biosolids recycling); and Savvy about Soil, Wise about Water. Each curriculum has an introductory lesson (taught by teacher), in-class sessions and field trips led by a Mountains to Sound environmental

educator. Teachers can choose to use all segments of the curriculum or just one, as each stands on its own. These programs help students understand forest ecology, land use issues, the salmon lifecycle, biosolids recycling and soil and water issues. Hands-on activities, a video and student led presentations enrich each curriculum. All programs help fulfill the state mandate to provide environmental education experiences to students and are aligned to Washington State Essential Academic Learning Requirements in science, social studies, mathematics, reading and communication. Financial assistance is available for transportation to the field trip or the teacher can choose to use the free Wheels to Water bus by contacting Casey Plank at 206-263-6028.

Contact Sally Kentch at 206-524-1665 or sally.kentch@mtsgreenway.org or visit www.mtsgreenway.org for more information.

Grants

Rural Community Partnership Grants

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • The Rural Community Partnership Grants target projects that solve drainage, water quality and/or habitat problems in rural King County. Organizations and schools that work in collaboration with King County to solve drainage, water quality or habitat problems in rural areas may qualify.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@metrokc.gov, or visit <http://dnr.metrokc.gov/wlr/pi/grant-exchange/grantprograms.htm> for more information.

Internet Resources

KIDS Web Site!

King County Department of Natural Resources & Parks

Grades 4-10 • Visit the Department of Natural Resources and Parks KIDS Web site at <http://www.metrokc.gov/dnr/kidsweb/>. The site features interactive games and information on solid waste, recycling, watersheds, water quality, wildlife, habitat and household hazardous waste.

King County Department of Natural Resources and Parks Web Site

King County Department of Natural Resources & Parks

Find information about hands-on volunteer projects, publications and technical information at <http://dnr.metrokc.gov/>

Topics and issues include:

- Environmental Grants
- Hands-on Volunteer Projects
- Parks and Recreation
- Recyclable Goods
- Salmon
- Solid Waste
- Wastewater Treatment
- Water Conservation
- Water and Land

For additional information about specific programs, please forward your request to the contact staff member listed at the bottom of each web page. Also visit our “Resources for Students” page at <http://dnr.metrokc.gov/topics/learning/LRNtop.htm>.

King County Department of Natural Resources and Parks – Publications Online

King County Department of Natural Resources & Parks

All ages • Online publications can be accessed at <http://dnr.metrokc.gov/topics/publications/pubtopic.htm>.

King County Solid Waste Division Web Site

King County Department of Natural Resources and Parks, Solid Waste Division

Online information about all aspects of solid waste can be accessed at <http://dnr.metrokc.gov/swd/>.

King County Volunteer Web Site

King County

Teachers and students looking for student community service projects have a valuable information-gathering resource available to them at <http://www.metrokc.gov/volunteer.htm>. The King County Volunteers page links web site users to more than two dozen volunteer opportunities concerning

the environment, salmon conservation, recreation, arts programs, pet foster care, children’s services, social services and the law.

King County Water and Land Resources Division Web Site

King County Department of Natural Resources and Parks, Water and Land Resources Division

Visit <http://dnr.metrokc.gov/wlr/> for information about hands-on volunteer projects, publications and plans available to you and your students.

Visit <http://dnr.metrokc.gov/wlr/resource.htm> for information on county water quality programs.



Other Resources

Agriculture Youth Program

Washington State University Extension Service/King County Department of Natural Resources and Parks

Grades 6-12 • This program is offered through summer school programs and teaches secondary students that agriculture includes more than farming. Through hands-on experiments youth learn different aspects of agriculture such as soil texture by feel, pH concepts, soil preparation, seed collection, and more. They also learn that agriculture is for everyone and many crops are used in food production. The program provides opportunities to discover agriculture as a career and students will find out about undergraduate programs available in agriculture. The program also provides “Agriculture in the Classroom” subjects designed for school teachers with little or no agriculture background. In addition, teachers can enrich their curriculum and learn different activities for use in classrooms through a training that will be offered for one full week (Monday through Friday) in July 2006. This training requires a minimum of 20 people. Contact Sonia G. Morales at 206-205-3133 or sonia.morales@metrokc.gov or sgmorales@wsu.edu.

Chinook Book

King County and City of Seattle

All ages • A new upstream approach to teaching about natural resource stewardship, this fund-raising tool offers a variety of discount coupons for environmentally helpful products and services.

Call 206-296-6542 or visit <http://www.ChinookBook.net> for more information.

Extension Watershed Stewardship Program

Washington State University King County Extension

Adults • Extension Watershed Steward volunteers provide education and leadership



throughout King County on a variety of natural resource management, conservation, and restoration projects. From educating homeowners about backyard wildlife habitat to restoring woodlands and streams, watershed stewards are making a difference.

New Extension Watershed Stewards undergo a comprehensive training that provides them with a foundation of skills and knowledge on watershed issues. The training emphasizes practical stewardship. Professional staff from WSU King County Extension, public agencies and citizen organizations provide classroom and field presentations on natural resource protection topics. Recent trainings have focused on urban and rural connections as well as watersheds and salmon, including presentations on geology, hydrology, forest resources, native plants, wetlands, wildlife and

interactions between people and watersheds. The trainees also learn how to organize a stewardship project and how to educate youth and adults. Classes are held on consecutive Fridays from April through May, and consist of nine days of in-class training with field exercises, 9 am to 4 pm, and two Saturday field trips, 9 am to 3 pm.

Following completion of the training program, new watershed stewards embark on community-based projects, working within existing volunteer programs and/or initiating projects that reflect their interests and the needs of their communities. Stewards are supported by WSU Extension staff and by the many watershed stewards who have been trained over the 15 years of the Extension Watershed Stewardship program.

Videos on water quality, wetland monitoring and agricultural best management practices are also available for loan.

Contact Tara Zimmerman at 206-205-3203 or tara.zimmerman@metrokc.gov or Paul Racette at 206-205-3171 or paul.racette@metrokc.gov, or visit <http://www.metrokc.gov/WSU-CE/land&water/> for more information.

Speaker's Bureau

King County Department of Natural Resources and Parks, Wastewater Treatment Division

All ages • Arrange to have a speaker come to your organization's meeting, neighborhood group or classroom to speak about water quality and wastewater treatment. Topics include wastewater treatment basics, the siting of our new regional wastewater treatment plant, regional wastewater system planning, advanced technologies, Puget Sound marine outfall studies and much more.

Contact John Phillips at 206-263-6543 or john.phillips@metrokc.gov to schedule a speaker or for more information.

Nutrition

Curricula

Extension Family Nutrition Education Program – EFNEP

Washington State University Extension/King County

Grades K-12 • This effective year-round food and nutrition education program targets students and families with limited resources. The youth program employs a well-tested curriculum aimed at improving students' food and nutrition-related knowledge, behaviors and overall health. Dynamic, interactive classes use demonstrations, handouts, games and hands-on activities to enhance learning. Well-trained Nutrition Educators, experienced in teaching culturally diverse audiences in a variety of settings, work with individual teachers to plan a series of classes designed to meet class and program objectives and to address the needs of individual student audiences. A series of classes is available, with classes ranging in length from 30-60 minutes, depending on topic and age of students. The number of lessons provided and topics covered is flexible/variable, and determined by mutual agreement between teacher and Nutrition Educator. Opportunities for practicing new skills are provided to enhance learning and encourage positive changes in food and nutrition-related behaviors. Lesson handouts are provided to students during individual lessons. Topics include:

- The Food Guide Pyramid
- Cooking Skills
- Nutrients for a Healthy Body
- Food Shopping
- Healthy Snacks
- Food Safety
- Meal Planning

Contact Susan Hauck at 206-205-3217 or susan.hauck@metrokc.gov for more information.

Additional program information is available at <http://www.metrokc.gov/wsucce/EFNEP/>.

4 - H Food \$ense CHANGE Program Gardening and Nutrition Education Program

Washington State University Extension/King County

Grade K- 6 • This integrated, garden-enhanced nutrition education program targets students with limited resources and teaches experientially through gardening and cooking. Food \$ense CHANGE Educators provide ten classrooms lessons that are aligned to the EALRs with emphasis on math, science, reading and writing. The program also works in limited-income housing communities using gardens as an instructional tool to teach nutrition to youth. Food \$ense CHANGE works in collaboration with local partners to help communities and schools become a healthier place to live, work and learn. Resources include partnerships with existing WSU Extension programs such as 4H Program, Master Gardener Program, and Master Recyclers and Composting Program. CHANGE also works with Highline and Tukwila School District Elementary Schools, Kent Youth and Family Services, King County Housing Authority and King County Parks and Recreation Department.

Contact Susan Hauck at 206-205-3217 or susan.hauck@metrokc.gov or visit [http://www.metrokc.gov/wsucce/food\\$ense/CHANGE/](http://www.metrokc.gov/wsucce/food$ense/CHANGE/) for more information.



Transportation

AIRPORT/AVIATION EDUCATION

Curricula

Career Exploration

King County Department of Transportation, King County International Airport



Grades 7-12 •

Case studies have been prepared by the Magnuson Partnership, a project of the Port of Seattle and King County, to help students learn about careers in international trade and transportation. A case study is a short story problem about a real person and a

challenge that person faces. These case study lesson plans feature people in our community who work in trade and transportation. They are designed to give students an active way to “try on” a career. In addition, they help students practice basic skills in reading, writing and problem solving.

These lesson plans are all based on the 7th and 10th grade benchmarks for the Washington State Essential Academic Learning Requirements (EALRs). They are also specifically designed to help students prepare for the reading and writing exercises that are part of the Washington Assessment of Student Learning (WASL) exam. Each of these lesson plans includes everything needed for a 45-minute to one-hour lesson: student handouts, teaching notes, discussion questions, background information and answer keys for assignments. Each lesson plan includes at least one suggested written assignment to assist teachers with assessing how students are learning. Download lesson plans at <http://www.metrokc.gov/airport/education/teacher>.

Field Trips

King County International Airport Field Trip

King County Department of Transportation, King County International Airport

All ages • A ramp-side tour provides a unique look at one of the nation’s busiest general aviation airports. The narrated tour explaining the history and current operations at King County International Airport takes about one hour. In addition to the Boeing Company delivery ramp, where the newest commercial jet aircraft can be seen, the tour allows observation from the air-side of the airport of a wide variety of general aviation businesses and activities. If time allows, additional stops can include a visit to the Aircraft Rescue and Fire Fighting station to see the latest in aviation emergency response equipment, a tour of the 1930 Terminal Building, including historical displays and public art exhibits, and/or visits to local airport businesses.

Group tours are provided free of charge, but are subject to current security requirements. Reservations are requested at least two weeks in advance. Tours require a minimum of 20 people for a bus tour and 10 people for a van tour. Some groups like to visit the Museum of Flight in conjunction with an airport tour. Scheduling is the responsibility of the tour group. The Museum of Flight is located on the southwest side of Boeing Field. Call 206-764-5700 for more information and admission fee.

Contact Rita Creighton, Airport Aviation Education Manager at 206-296-7431 or rita.creighton@metrokc.gov for more information.



Other Resources

Job Shadows and Internships

King County Department of Transportation, King County International Airport

Grades 9-12 • Aviation remains one of the most important aspects of the Northwest economy. Airport staff will help teachers and students arrange job shadows and internships in aviation-based occupations on an individual basis. Large-scale career events with a wide variety of job shadows are held throughout the year and in April as part of King County's Take Your Children to Work Day. The airport also partners with the Museum of Flight in other career exploration activities, including an Annual Educator's Open House in October, a Teen Leadership Conference in January, and Women Fly! – a conference in March to encourage young women to consider non-traditional aviation careers.

Contact Rita Creighton, Aviation Education Manager at 206-296-7431 or rita.creighton@metrokc.gov for more information.

Opportunity Skyway

King County Department of Transportation, King County International Airport

Grades 5-12, and school dropouts • Located on-site at Boeing Field, this airport-based education initiative uses hands-on learning to teach math, science, technology and other aviation-related subjects. Activities include: student assembly of full-sized aircraft; school-based projects using gliders, kites, hot air balloons, wind tunnels, navigation and other aspects of aviation; and competitions that test student skills in aeronautical design, construction and flight. Opportunity Skyway strives to integrate academic and vocational learning. The program operates year-round with:

- A summer program for youth seeking skills leading to a first-time job experience

- Out-of-school youth working to attain their GED while developing aircraft assembly skills
- Younger children attending a summer aviation day camp
- Students from a local high school spending half a day during the school year learning real aircraft assembly skills

Call 206-296-7431 for details and dates of activities, or visit <http://www.metrokc.gov/airport/education> for more information.

TRANSIT EDUCATION and SAFETY

Field Trips

Metro Base Tours

King County Department of Transportation, Metro Transit Education Services

All ages • See Metro in action and talk to people behind the scenes. How are buses repaired and painted? How does Metro clean a big bus in only ten minutes? Come to one of our bases to see. Tour the operator sign-in area, the maintenance shop, upholstery shop, body shop and paint shop. Learn about the tools and machines that the mechanics use. One-hour tours are available for all ages. There are four different bases and you can choose one in your area of the county! The maximum group size is 30 people.

Contact Patricia Banks at 206-684-1581 or patricia.banks@metrokc.gov for more information.



Youth Field Trip Program

King County Department of Transportation, Customer Services

Schools and youth organizations may travel on Metro buses for half price. Visit <http://www.metrokc.gov/kcdot/kids/transit/field.htm> for program criteria and to download the program brochure and field trip forms. Teachers and leaders can get ideas for fun destinations on a Metro bus. The maximum group size is 30 people.

Contact Patricia Banks at 206-684-1581 or patricia.banks@metrokc.gov for more information.

Internet Resources

Transit Topics for Kids Web Site

King County Department of Transportation, Customer Services

All ages • Students can visit the Transit Topics for Kids web site at <http://www.metrokc.gov/kcdot/kids/transit/topics.htm> to explore a variety of transit topics for personal interest or school reports. Visitors to the site will find interesting articles, activities and a bus photo album. Contact Tom Randall at 206-684-1013 for more information.

Videos

See You on Metro

King County Department of Transportation, Customer Services

Grades 6-12 • This video is an excellent tool for English as a Second Language (ESL) and Special Education programs. It is highly visual with simple narration that is easy to understand. The video is closed captioned so that ESL and hearing impaired students are able to read the dialogue as well as listen to it. The 12-minute video may be seen at one sitting, or it may be watched one section at a time.

Subjects/sections include:

- Introduction to Metro
- Getting Information
- How to Pay Your Bus Fare
- Regional Reduced Fare Permit (RRFP)
- Fare System
- When to Pay Your Bus Fare
- How to Use a Transfer
- Ready to Ride?
- When You Need Help
- Riding on the Bus
- Other Transportation Choices

Contact Bob Flor at 206-684-1611 or Tom Randall at 206-684-1013 for more information.



4-H Programs

4-H Youth Development Education Programs

*Washington State University Extension/King County
Department of Natural Resources and Parks*

Program Description: 4-H in King County is a mostly volunteer driven youth development education program of Washington State University Extension (a part of the land grant university system), which is conducted in partnership with the U.S. Department of Agriculture and King County government. 4-H has program activities in urban, suburban, and rural communities across King County. It reaches over 7,000 youth in King County, and has over 700 volunteers serving as adult role models. 4-H serves a broad range of youth and adults with expanded program focus using a variety of ways to deliver its effective “learn by doing” approach.

All 4-H youth development emphasizes three types of basic life skills: competency, coping, and contributory. Competency skills are: learning and using accepted practices for mental, physical, emotional, and social health; exploring and evaluating career and job opportunities; acquiring subject matter skills and knowledge in science or art; and developing and practicing responsible skills related to the environment. Examples of coping skills are: acquiring a positive self-concept; learning to respect and get along with people; and developing productive use of leisure time. Contributory skills include those where youths learn and practice leadership skills and fulfill leadership roles; participate in community affairs; and develop as individuals and leaders in the 4-H program.

Program Mission: 4-H youth development education creates supportive environments for all youth and adults to reach their fullest potential. In support of this mission we:

- provide formal and non-formal community-focused experiential learning.
- develop skills that benefit youth throughout life.
- foster leadership and volunteerism in youth

and adults.

- build internal and external partnerships for programming and funding.
- strengthen families and communities.
- use research based knowledge and the land grant university system.

Achievement of this mission will result in capable, competent, and caring citizens.

Contact Carriss E. Booker at 206-205-3177 or carriss.booker@metrokc.gov or visit <http://www.metrokc.gov/wsu-ce/4-h>.

4-H Adolescent Youth Development

*Washington State University Extension/King County
Department of Natural Resources and Parks*

Adults • This best-practices curriculum, authored by 4-H and the US Army, contains 40 hours of training to prepare adults to work effectively with adolescents. The training includes modules about development of youth-adult partnerships, working effectively in groups, adolescent growth and development, working in groups with diverse ethnicities, ages, and cultures, and dealing with conflict effectively. The training is highly experiential, and has been used effectively throughout the US and in Army bases around the world. This program is available upon request.

Contact Sue Lerner at 206-205-3209 or susan.lerner@metrokc.gov for details.



4-H Best Management Practices

Washington State University Extension/King County Department of Natural Resources and Parks

Grades 6-12 • 4-H programs feature Best Management Practices (BMPs), field trips, competition and implementation. In conjunction with the King County Water and Land Resources Division, 4-H offers youth groups an opportunity to tour local farms in spring, summer and fall to learn about Farm Plans and BMPs for livestock. Youth can create educational exhibits for fair competition and to inform fair visitors about BMPs. High school students are invited to construct BMPs on selected farms.

Contact Carris Booker at 206-205-3177 or carris.booker@metrokc.gov, or Brad Gaolach at 206-205-3135 or brad.gaolach@metrokc.gov, or visit <http://www.metrokc.gov/wsu-ce/4-H> for more information.

4-H Challenge Ropes Course and Portable Challenge Kit

Washington State University Extension/King County Department of Natural Resources and Parks

Grades 6-12 • Located at Bonney Lake, the year-round 4-H Challenge Ropes Course offers outdoor activities that develop problem-solving skills, teamwork, self-awareness, communication

and leadership among youth. Trained facilitators insure safety and fun. Pre and post-event activities are suggested for classroom reinforcement of skills learned in the field. A portable challenge kit is available to teachers who have attended a three-day facilitator training offered twice each year. Kit activities can be easily conducted in the school gym on an as needed basis. Allow one day for the Challenge Ropes Course at Bonney Lake, two hours for Portable Challenge. Facilitator training is also available to interested community members.

Contact Carey Roos at 206-205-3152 or carey.roos@metrokc.gov, or <http://blchallenge.wsu.edu/> for more information.

King County 4-H Program Newsletter

Washington State University Cooperative Extension Service/King County Department of Natural Resources and Parks

Adults • The monthly newsletter supports 4-H project activities in schools and community centers throughout King County. The newsletter promotes adult and youth training three times each year, suggests tips for having fun at the King County Fair by exhibiting projects, and links groups to local resources for community service projects and extended learning opportunities. The newsletter can be found on the 4-H Programs Web site at <http://www.metrokc.gov/wsu-ce/4-H>.

4-H Projects and Curricula

Washington State University Extension/King County Department of Natural Resources and Parks

Grades K-12 • From gardening to rocketry, wetlands to computers, as well as the theatre arts, 4-H activities teach life skills. Research-based information offers background knowledge for long-term projects that can be taken to the urban, county and state fairs. Volunteers, K-12 teachers and home school families find the activities and projects easy to adapt to individual needs and classroom sites.

Contact Carris E. Booker at 206-205-3177 or carris.booker@metrokc.gov, or visit <http://www.metrokc.gov/wsu-ce/4-H> for more information.



4-H Rite of Passage

Washington State University Extension/King County Department of Natural Resources and Parks

Ages 16-19 • 4-H Rite of Passage is a culturally-appropriate wilderness experience alone in which youth mark their graduation from high school with serious thought and purposefulness. The program involves preparation at home through guided activities followed by the up to 3 days and nights alone in the wilderness, and then reflection and planning for the future. 4-H Rite of Passage is an extension of the 4-H Challenge program (portable, low ropes and high ropes courses) in which youth explore their own strengths and challenges. The program is highly experiential and effective for those who choose it. Adult Training for Guides is held in August, and Youth ROP is held in June. Ten days are required.

Contact Sue Lerner, 4-H Youth Development Educator, at 206-205-3209 or susan.lerner@metrokc.gov for details.

4-H School Enrichment

Washington State University Extension/King County Department of Natural Resources and Parks

Materials available for age ranges 6-10, 11-14, 15-19 • 4-H offers youth development activities both during and after school. In-school programs are usually delivered by the classroom teacher using 4-H curriculum materials, with support from King County staff and experienced volunteers. Curriculums are authored by Washington State University faculty experts in content and youth development. The publications are useful as journals to document the student's exploration of the subject matter through activities outlined in the Leader's Guide. Content areas include, but are not limited to: Consumer Education, Service Learning, Character Education, Conflict Resolution, Performing Arts, Expressive Arts, Foods, Nutrition, Cooking, Geology, Environmental Stewardship, Entomology, Water Resources, Know Your Government, Leadership, and many more. Most curriculums are aligned with EALRs. The program is available year-round by request. Length of time is flexible, but usually requires 5-10 hours.

Contact Sue Lerner, 4-H Youth Development Educator, at 206-205-3209 or susan.lerner@metrokc.gov for details.

4-H Strengthening Families

Washington State University Extension/King County Department of Natural Resources and Parks

Ages 7-20 • This program is designed to build communication skills among family members. It focuses on the major issues that the family raises and provides training for the adults and youth separately, and then guided time together in which to practice the skills they've learned. The program curriculum is highly experiential. "Families" for the purpose of this training will include any adult/youth group who provide life supports to one another and who look to each other as a family. The program is available by request and requires classroom space, a video player and TV. Three-hour sessions are held once a week for 7 weeks. Each session includes a meal and time to learn and practice the skills.

Contact Sue Lerner, 4-H Youth Development Educator, at 206-205-3209 or susan.lerner@metrokc.gov for details.



INDEX

Action Projects

Action Teams	4
Earth Heroes at School Program.....	4
Fall for Salmon	15
Green Schools Program	8
Green Teams	6
Green Team Mini-Grants	6
Native Plant Salvage Program	13
Volunteer Plantings/ Adopt-A-Park Programs	14

Classroom Programs

Civil Rights Education	2
Earth Smart: Choices for Our Planet Elementary School Assembly	6
Hazards on the Homefront: Slugs, Bugs, and Dirty Toilets.....	4
Household Hazardous Waste & Water Quality: A Classroom Series	4
King County Work Training Program.....	2
Master Recycler Composter Volunteers.....	7
Natural Connections Classroom Workshops.....	7
Salmon Habitat Presentation for the Green/Duwamish and Central Puget Sound Watershed.....	15
Waste Busters Classroom Workshops	8
Waste Reduction and Recycling Activity Sheets	9

Curricula

Career Exploration	20
Extension Family Nutrition Education Program - EFNEP	19
Hazards on the Homefront: A Teacher's Guide to Household Hazardous Waste.....	5
Seismic Sleuths Curriculum Guide	3
Tremor Troops Curriculum Guide	3
Zero in on Waste Guides	9

Field Trips

Cedar River Salmon Journey	15
King County International Airport Field Trip.....	20
Metro Base Tours	21
Regional Emergency Coordination Center Field Trips.....	3
Tours - Cedar Hills Landfill	9
Tours - Transfer Station	9
Wastewater Treatment Plant Tours.....	13
Waterworks Garden Stroll - South Plant - Renton.....	12
Wheels to Water	12
Youth Field Trip Program	22

Grants

Community Salmon Fund.....	16
Cultural Education Program - Local History in Education Grants	1
Hazards on the Homefront: Mini-grants	5
Natural Resource Stewardship Network	14
Rural Community Partnership Grants.....	16
Special Projects Program - Arts Projects Grants.....	1
Special Projects Program - Heritage Projects Grants	1
Splash - the Water Quality Education Fund.....	12, 14
WaterWorks Grants	15
Wild Places for City Spaces: Urban Reforestation and Habitat Restoration Fund	15

Internet Resources

Hazardous Waste Web Site	6
KIDS Web Site!	16
King County Department of Natural Resources and Parks – Publications Online	17
King County Department of Natural Resources and Parks Web Site	17
King County Solid Waste Division Web Site.....	17
King County Volunteer Web Site	17
King County Water and Land Resources Division Web Site...	17
Transit Topics for Kids Web Site	22

Other Resources

4-H Adolescent Youth Development.....	23
4-H Best Management Practices Programs.....	24
4-H Challenge Ropes Course and Portable Challenge Kit	24
4-H Projects and Curricula.....	24
4-H School Enrichment.....	25
4-H Strengthening Families	25
4-H Youth Development Education Programs	23
Agriculture Youth Program.....	17
Chinook Book	18
Community Gardening Program.....	2
Extension Watershed Stewardship Program	18
Job Shadows and Internships	21
King County's Fiber Optic Network Plans	2
Opportunity Skyway	21
Speaker's Bureau	18

Publications

Class Act	10
-----------------	----

Teacher Workshops

Hazards on the Homefront: Teacher Training Workshop	6
---	---

Videos

All the Right Stuff.....	10
Gotta Have It.....	10
Groundwater: The Flow From Below	13
Household Hazardous Waste: A Little Goes a Long Way.....	10
Little Drip.....	13
Mr. Roger's Neighborhood	10
Natural Connections - Emmy Award Winner!	10
No Time to Waste.....	10
Oil and Water Don't Mix	11
Our Planet Earth.....	11
See You on Metro.....	22
Space Station Earth	11
Studies in Stewardship.....	11
Stuff Video Project.....	11
The Merchants of Cool	10
The Resource Revolution.....	11
The Rotten Truth	11
Turtle World	11
Wastewater Treatment Division Overview	13
Wiz Kids Video Adventures.....	11



KING COUNTY PROGRAM CONTACTS

Note: All King County employees can be reached by using the following e-mail format: firstname.lastname@metrokc.gov

Office of Civil Rights

Classroom/School Presentations
Rose Dotson 206-296-7592

4 Culture

Arts Projects Grants
Doreen Mitchum 206-296-7579
Culture & Heritage Programs
Charles Payton 206-296-8693

Department of Community & Human Services

Work Training Program
George Dignan 206-296-5220

Department of Executive Services

Office of Emergency Management Emergency Preparedness and
Prevention Training
Timothy Doyle 206-205-4071

Department of Natural Resources & Parks

Parks and Recreation Division Community Gardening Program
Anne Lipe 206-205-8751

Public Affairs

Fall for Salmon Month
Glynis Vaughn 206-296-1980

Solid Waste Division

Class Act Newsletter
Donna Miscolta 206-296-4477
Green Schools Program
Dale Alekel 206-296-8457
Household Hazardous Waste Teacher Training
Donna Miscolta 206-296-8477
Master Recycler Composter Program
Karen May 206-296-4353
Recycling and Waste Reduction Assistance
Dale Alekel 206-296-8457
School Programs Grades 1-12
Donna Miscolta 206-296-4477

Wastewater Treatment Division

Speakers Bureau
John Phillips 206-263-6543
Wastewater Treatment Programs
Jo Sullivan 206-296-8361
Wheels to Water Program
Casey Plank 206-263-6028

Water and Land Resources Division

Household Hazardous Waste Classroom Program
Gail Gensler 206-263-3082
Native Plant Salvage Program
Greg Rabourn 206-296-1923
Natural Resource Stewardship Network
Linda Vane 206-296-8042
Rural Community Partnership Grants
Ken Pritchard 206-296-8265
Volunteer Plantings/Adopt-A-Park Program
Tina Miller 206-296-2990
WaterWorks Program
Ken Pritchard 206-296-8265

Department of Transportation

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Rita Creighton 206-296-7431
Transit Education and Field Trip Programs
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Washington State University King County Extension

4-H Youth Development Education Programs
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4-H Challenge Ropes Course &
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Environmental Education
Darcy Batura 206-205-3130
Extension Watershed Stewardship Program
Paul Racette 206-205-3171
Nutrition Education and Food Safety
Susan Hauck 206-205-3162



FIND IT ON THE NET

The following internet addresses are found throughout this directory. They are listed by topic below for your convenience.

Airport Aviation Education
www.metrokc.gov/airport/education/

Beach Naturalist Program
<http://dnr.metrokc.gov/wlr/pi/beach-naturalists.htm>

Car Wash Kits
<http://dnr.metrokc.gov/wlr/pi/carwash.htm>

Cedar River Salmon Journey
<http://dnr.metrokc.gov/wlr/pi/cedar-river-journey.htm>

Chinook Book
www.ChinookBook.net

Civil Rights
www.metrokc.gov/dias/ocre

Class Act and Green Gram Newsletters
www.metrokc.gov/dnrp/swd/education/documents.asp

Cultural Education
www.4culture.org

Department of Natural Resources and Parks Kids Web Site
www.metrokc.gov/dnr/kidsweb/

Department of Natural Resources and Parks Publications
<http://dnr.metrokc.gov/topics/publications/publtopic.htm>

Department of Natural Resources and Parks School Resources
<http://dnr.metrokc.gov/topics/learning/LRNtop.htm>

Downstream News
<http://dnr.metrokc.gov/wlr/pi/downstream-news.htm>

Emergency Preparedness
www.metrokc.gov/prepare

Grant Exchange
<http://dnr.metrokc.gov/wlr/pi/grants.htm>

Green Teams
www.metrokc.gov/dnrp/swd/elementaryschool/index.asp

Greens Schools Program
www.metrokc.gov/dnrp/swd/greenschools/index.asp

Groundwater Education Program
<http://dnr.metrokc.gov/wlr/pi/groundwater/>

Household Hazardous Waste Mini-Grants
www.metrokc.gov/dnrp/swd/education/hazwaste.asp

Household Hazardous Waste School and Youth Program
www.govlink.org/hazwaste/schoolyouth

Institutional (I-Net) Program
www.metrokc.gov/dias/its/i-net/index.htm

Master Recycler Composter Program
www.metrokc.gov/dnrp/swd/mrc/index.asp

Mountains to Sound Greenway
www.mtsgreenway.org

Native Plant Salvage Program
<http://dnr.metrokc.gov/wlr/pi/salopps.htm>

Parks Programs
www.metrokc.gov/parks

Programs for Educators Directory
www.metrokc.gov/dnrp/swd/education/documents.asp

Salmon Habitat Presentation for the Green/Duwamish and Central Puget Sound Watershed
<http://dnr.metrokc.gov/Wrias/9/index.htm>

Solid Waste Division Schools Programs
www.metrokc.gov/dnrp/swd/education/index.asp

Speaker's Bureau and Treatment Plant Tours
<http://dnr.metrokc.gov/wtd/tours/index.htm>

Storm Drain Stenciling
<http://dnr.metrokc.gov/wlr/pi/stencil.htm>

Transit Field Trip Program
www.metrokc.gov/kcdot/kids/transit/field.htm

Volunteer Opportunities
www.metrokc.gov/volunteer.htm

Waste Reduction and Recycling Topics
www.metrokc.gov/dnrp/swd/index.asp

Wastewater Treatment Division
<http://dnr.metrokc.gov/wtd/>

Water and Land Resources Division Grant Programs
<http://dnr.metrokc.gov/wlr/pi/grant-exchange/grantprograms.htm>

Water and Land Resources Division Publications
<http://dnr.metrokc.gov/wlr/pubs/pubindex.htm>

Water Conservation
<http://dnr.metrokc.gov/wtd/waterconservation>

Water Quality
<http://dnr.metrokc.gov/wlr/resource.htm>

Watershed Stewardship Directory
<http://dnr.metrokc.gov/wlr/wmdir/>

Wheels to Water Program
<http://dnr.metrokc.gov/wtd/wheelstowater/index.htm>

WSU King County Extension
<http://www.metrokc.gov/wsucce>

Learning is not attained by chance, it must be sought for with ardor and attended to with diligence.

— Abigail Adams, 1780



Thank you!

.....for using the 2005-2006 King County Programs for Educators directory. For additional copies, please call 206-296-6542, or place your request via email at website.swd@metrokc.gov.

Produced by King County Department of Natural Resources and Parks – Solid Waste Division

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District 7 – Pete von Reichbauer
District 8 – Dow Constantine
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District 11 – Jane Hague
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King County

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